

## **PREDICTING OUTCOME OF HYPERBARIC OXYGEN THERAPY WITH NITRIC OXIDE BIOAVAILABILITY**

### **Abstract of the Invention**

Methods and kits are provided for determining whether a patient will respond favorably to hyperbaric oxygen therapy treatment. The method comprises the step of comparing nitric oxide production, a nitric oxide-related product level, and/or the nitric oxide bioactivity index in a specimen from a patient with a threshold value. If nitric oxide production, nitric oxide-related product level, and/or the nitric oxide bioactivity index (defined as “the level of a nitric oxide-related product to the level of an oxidant stress-related product”) is above the threshold value then the patient will respond favorably to hyperbaric oxygen therapy treatment. If nitric oxide production, nitric oxide-related product level, and/or the nitric oxide bioactivity index is approximately at or below the threshold value then the patient may not respond favorably to hyperbaric oxygen therapy treatment.